

Ship Aug 26

Work Order ID 149062

149062

Page 1

Tuesday, July 19, 2016 2:41:17 PM

Item ID: D139-816-011

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/19/2016 Req'd Qty: 1.00

1

Customer:

Reference:

DAS

Run Start

NR1

Approvals: Process Plan: 21

9-89

Date: JUL 19 2016

Tooling:

Date:

Stop

NR2

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

DSI9686

A

DSI9691

A

IIN-D139-816

D

AUG 03 2016

DAS
6
9-89

DAS
21
9-89

16-08-03

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy blue file & type labels as per PPP D139-816-011 CH6005

DAS
21
9-89

DAS
27
9-89

AUG 15 2016

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
6
9-89

AUG 03 2016

DAS
28
9-89

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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Work Order ID 149062

Tuesday, July 19, 2016 2:41:17 PM

149062

Page 2

Item ID: D139-816-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/19/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

120

QC4- 100% Inspect kits for completeness

0.01

120

QC

Memo

0.00

Quality Control

DAS

27

9-89

AUG 23 2016

130

Packaging

0.00

130

Packaging

Memo

0.00

Packaging

Package as per PPP D139-816-011 Identify and Stock
Location: _____

sold

DAS
28
9-89

DAS

27

9-89

AUG 23 2016

140

QC21- Final Inspection - Work Order Release

0.02

140

QC

Memo

0.02

Quality Control

DAS

21

9-89

AUG 23 2016

Em 16/08/23

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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		OTHER : _____																							

Picklist Print

Tuesday, July 19, 2016 2:41:19 PM

Page 1

Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev A 12/05/07 New Release DL
IPP Rev. B 12/11/08 Update dwg. DL
Dwg. Update 13/07/09 DL verf:DD
PER IIN REV.D DD VERF:JFS
DSI9686 JLM VERIFIED BY:DD

IPP Rev. C
IPP REV:D 13.12.23 AS
IPP REV E 14.04.01 AS PER

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4634-041 *D4634-041* Fwd, Center Ceiling Panel Assembly		Manufactured	No			110	Each	0.0000	1	1			DAS 28 9-89
D4634-043 *D4634-043* Middle, Center Ceiling Panel Assembly		Manufactured	No			110	Each	0.0000	1	1			DAS 28 9-89
D4634-045 *D4634-045* Aft, Center Ceiling Panel Assembly		Manufactured	No			110	Each	0.0000	1	1			DAS 28 9-89
D4635-041 *D4635-041* Fwd Ceiling Panel Assembly, LH		Manufactured	No			110	Each	0.0000	1	1			DAS 28 9-89
D4635-042 *D4635-042* Fwd Ceiling Panel Assembly, RH		Manufactured	No			110	Each	0.0000	1	1			DAS 28 9-89
D4635-043 *D4635-043* Aft Ceiling Panel Assembly, LH		Manufactured	No			110	Each	0.0000	1	1			DAS 28 9-89
D4635-044 *D4635-044* Aft Ceiling Panel Assembly, RH		Manufactured	No			110	Each	0.0000	1	1			DAS 28 9-89

Handwritten notes and signatures:

- B149075
- B149070
- B149124
- B149144
- B149116
- B149119
- B149144

Signatures: S4, S6, S4, S4, S4, S4, S4

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

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OTHER :																									

Picklist Print

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Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

D4636-043	Manufactured	No	110	Each	46.0000	16	16	
D4636-043						**		
Receptacle Bracket Assembly								DAS 28 6 9-89

DAS
27
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST115	46	
124109	2	
126493	8	
<u>130828</u>	36	

D4636-11	Manufactured	No	110	Each	29.0000	10	10	
D4636-11						**		
Bracket								DAS 28 6 9-89

DAS
27
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST115	29	
126494	3	
<u>129248</u>	26	

D4636-5	Manufactured	No	110	Each	29.0000	16	16	
D4636-5						**		
Bracket								DAS 28 6 9-89

DAS
27
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST115	29	
<u>129249</u>	29	

D4636-7	Manufactured	No	110	Each	17.0000	4	4	
D4636-7						**		
Retainer Plate								DAS 28 6 9-89

DAS
27
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST224	17	
124519	4	
<u>129250</u>	13	

ALL R 2 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause		FAULT CATEGORY					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____	

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Page 3

Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

D4636-9
D4636-9

Template

DAS
27
9-89

Manufactured No

110

Each

25.0000

1 1

**

DAS 6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST115

25

124315

25

110

Each

9.0000

1 1

**

DAS 6 28
9-89 9-89

D4648-1
D4648-1

Template

DAS
27
9-89

Manufactured No

Location

Loc Qty

Loc Code

ST224A

9

117658

6

119840

3

110

Each

7.0000

6 6

**

DAS 6 28
9-89 9-89

D4653-041
D4653-041

Vent Manifold Assembly

DAS
27
9-89

Manufactured No

Location

Loc Qty

Loc Code

ST224

3

141345

3

ST224A

4

129253

4

110

Each

8.0000

6 6

**

DAS 6 28
9-89 9-89

D4653-11
D4653-11

Clamp

DAS
27
9-89

Manufactured No

Location

Loc Qty

Loc Code

ST224

2

125405

2

ST224A

6

127148

6

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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

D4664-7 Manufactured No

110 Each 19.0000 3 3

D4664-7

Spacer
DAS
27
9-89

Location

Loc Qty

Loc Code

ST117

19

129262

19

**

DAS
28
6
9-89

D4712-043 Manufactured No

110 Each 24.0000 2 2

D4712-043

Bracket Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

ST224A

24

111161

1

125380

9

127232

14

**

DAS
6
9-89
DAS
28
9-89

D4716-1 Manufactured No

110 Each 9.0000 2 2

D4716-1

Duct Hose

DAS
27
9-89

Location

Loc Qty

Loc Code

ST221

9

125702

5

129265

4

**

DAS
6
9-89
DAS
28
9-89

D4716-3 Manufactured No

110 Each 16.0000 4 4

D4716-3

Duct Hose

DAS
27
9-89

Location

Loc Qty

Loc Code

ST221A

16

125473

8

129266

8

**

DAS
6
9-89
DAS
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

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Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

D4716-5 Manufactured No

110 Each 29.0000 6 6

D4716-5

Duct Hose

DAS
27
9-89

Location

Loc Qty

Loc Code

ST221b

17

125704

17

ST222a

12

129267

12

D4728-057 Manufactured No

110 Each 21.0000 1 1

D4728-057

Ps7J1 Jumper

DAS
27
9-89

Location

Loc Qty

Loc Code

MF002

6

117935

6

MF009

15

124738

15

D4728-063 Manufactured No

110 Each 21.0000 1 1

D4728-063

Cabin Temp Sensor Jumper Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

MF002

21

117938

6

124750

15

D4730-020-035 Manufactured No

110 Each 16.0000 24 24

D4730-020-035

Velcro Strip 2.0W/ X 3.5L

DAS
27
9-89

Location

Loc Qty

Loc Code

ST638

16

125419

14

130051

2

DAS DAS
6 28
9-89 9-89

DAS DAS
6 28
9-89 9-89

DAS DAS
6 28
9-89 9-89

DAS DAS
6 28
9-89 9-89

AUG 8 3 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
Root Cause				FAULT CATEGORY																					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			OTHER : _____																	

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Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

D5032-1

Manufactured No

110

Each

15.0000

16

16

D5032-1

Doubler

**

B149097X1

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST143

15

126462

15

15

D5032-3

Manufactured No

110

Each

21.0000

16

16

D5032-3

Doubler

**

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST143

21

126463

21

16

2351-20-21-C3C

Purchased No

110

Each

90.0000

16

16

2351-20-21-C3C

STUD

**

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST579

90

M128068

18

m130595

72

16

50-009-2

Purchased No

100

Each

97.0000

16

16

50-009-2

Grommet

**

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST562

97

582 m128047

47

m131501

50

16

ALL 8 3 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : _____									

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Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

AN970-3 Purchased No 110 Each 205.0000 10 10

AN970-3

Washers

DAS
27
9-89

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST260a 198

m129630 198

ST321 7

m128057 7

BT1.5I-M Purchased No 110 Each 954.0000 24 24

BT1 5I-M

Tie Wrap

DAS
27
9-89

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

over008 954

m128238 954

BT3LH-L Purchased No 110 Each 271.0000 12 12

***BT3I H-I ***

Tie Wrap

DAS
27
9-89

**

DAS
6 DAS
9-89 28
9-89

Location

Loc Qty

Loc Code

over008 200

m128238 200

st552 71

m128238 71

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

2,377.000

35

35

MS21042L3

Nut

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK007

600

m135056

600

FP001

14

m133790

14

GA

579

m134360

112

m135135

467

OVER007

700

m135135

700

ST303

484

m134039

12

m134943

472

DAS
28
6
9-89

MS24694-S51

Purchased

No

110

Each

123.0000

36

36

MS24694-S51

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

123

m133990

123

AUG 8 3 2016

DAS
28
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-15

Purchased

No

110

Each

261.0000

21

21

MS27039-1-15

Screw

**

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

21

m127916

21

over006

100

m134852

100

ST280

140

m132640

140

21

NAS1149D0316J

Purchased

No

110

Each

1,592.000

5

5

NAS1149D0316.J

Washer

**

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST264

1592

M134502

1592

5

NAS1149D0332J

Purchased

No

110

Each

1,720.000

34

34

NAS1149D0332.J

Washer

**

DAS
28
9-89
DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

6

m129682

6

FP001

558

m134848

558

GA

979

m135046

979

23

ST264

177

m134502

6

m134738

171

6

AUG 8 3 2016

Tuesday, July 19, 2016 2:41:20 PM

Shop Packet Print

Page 9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : _____									

Picklist Print

Page 10

Tuesday, July 19, 2016 2:41:20 PM

Work Order ID: 149062

149062

Parent Item: D139-816-011

D139-816-011

Parent Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016

Required Date: 7/19/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0663J

Purchased

No

110

Each

701.0000

6

NAS1149D0663.J

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260

227

M131618

227

ST263

469

M135135

469

ST269

5

M126334

5

CB200

Purchased

No

110

Each

9.0000

3

CB200

Acrylic Adhesive, 3.5G

DAS
27
9-89

Location

Loc Qty

Loc Code

PKG

9

m133800

1

m134943

8

CS125-1032-8AACR

Purchased

No

110

Each

52.0000

2

CS125-1032-8AACR

Stud

DAS
27
9-89

Location

Loc Qty

Loc Code

ST547

52

M130277

52

D5078-1

Manufactured

No

110

Each

6.0000

1

D5078-1

Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

ST148

6

125455

6

DAS
6 28
9-89 9-89

DAS
6 28
9-89 9-89

DAS
6 28
9-89 9-89

DAS
6 28
9-89 9-89

AUG 8 3 2016

Tuesday, July 19, 2016 2:41:20 PM

Shop Packet Print

Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By 		
							Lead hand / Supervisor Approval Verification 		
QC / QA Coordinator Approval 									

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____ _____ _____			
Misidentified ☐		Past Due ☐					

DART SERVICE INSTRUCTION

TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT
AND ICA-D139-816 REV. 3 OR SUBSEQUENT

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide an alternate method of installing the D139-816-011 Interior Ceiling Panel Kit for customers with newer 300 series aircraft models with split center ceiling panels.

2.0 PROCEDURE

This procedure modifies step 3.1.7 of IIN-D139-816 Rev. D.

2.1 Position the D4634-041/-043/-045 center panels onto the p/n E4417F01 cabin isolation mounts using $\varnothing 0.25"$ (6 mm) holes in the panels. Identify those mounts that do not align with holes in the panels. Ensure that a gap between the D4634-041/-043/-045 panels of approximately 0.050" (1.3 mm) is maintained.

2.2 Remove extra and non-aligning cabin isolation mounts from the ceiling. Temporarily install the removed mounts into non-align holes in the panels and paint mark the back of the E4417F01 mounts. Position the D4634-041/-043/-045 center panels onto p/n E4417F01 cabin isolation mounts. Ensure the new mount locations get marked in the cabin roof. Remove panels keeping the mounts on the panels.

2.3 Remove ceiling insulation from aircraft ceiling at the new marked mount locations.

2.4 Apply a small amount of CB 200 Click Bond adhesive to the E4417F01 cabin isolation mounts that are being relocated.

2.5 Reposition the ceiling panels on the ceiling pressing the E4417F01 cabin isolation mounts firmly on the ceiling and holding in position until the adhesive cures enough to remove the screws from the mount.

2.6 Install the necessary rivets to re-fasten the E4417F01 cabin isolation mounts to the ceiling.

2.7 Continue the ceiling panel installation as indicated in the IIN-D139-816.

3.0 GENERAL NOTE

3.1 Due to the thermoforming process variations in material thickness may occur. It is acceptable to install longer or shorter Dzus fasteners as required to accommodate this material variation.

4.0 WEIGHT & BALANCE

This DSI has a negligible effect on Weight & Balance.

5.0 PARTS LIST

For D139-816-011 & CHG 005 and later, the following parts have been added to the kit:

QTY. -011	PART NUMBER	DESCRIPTION
X	D139-816-011	INTERIOR CEILING PANEL KIT
3	CB 200	3.5g ACRYLIC ADHESIVE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO 149062 M.S
16-03-19

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 14.03.24
CERT. NO.: SH12-54
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION		BY DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9686	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		ALTERNATE INSTALLATION	NTS
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DART SERVICE INSTRUCTION

**TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT
AND ICA-D139-816 REV. 3 OR SUBSEQUENT**

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to install the D5078-1 Bracket to support the Overhead Connector for D139-811-011 Interior Ceiling Panel Kit.

2.0 PROCEDURE

This procedure is added after step 3.1.39 of IIN-D139-816 Rev. D.

- 2.1 Position the D5078-1 Bracket on the LH side of the cabin overhead by temporarily removing 2x MS27039-1 screws as shown in Figure 1. Transfer 2x $\varnothing 0.204$ " (#6 drill) holes from airframe to the D5078-1 Bracket. Deburr and touch-up holes with MIL-P-85582 or MIL-P-23377 primer.
- 2.2 Install D5078-1 Bracket using existing 2x MS27039-1 screws and washers as shown in Figure 1.
- 2.3 Install overhead cannon plug in the D5078-1 Bracket using existing NAS1801/1802 screws and existing AS85049/95-20A-A Perimeter Mounting Flange as shown in Figure 2.
- 2.4 Reconnect wire harness to overhead cannon plug as shown in Figure 2.

4.0 WEIGHT & BALANCE

This DSI has a negligible effect on Weight & Balance.

5.0 PARTS LIST

The D5078-1 bracket has been added to D139-816-011 Kits at CHG 005 and later. Customers who wish to obtain the D5078-1 Bracket for a kit that has already been installed can procure the DSI 9691-011 kit from Dart as outlined below.

QTY. -011	PART NUMBER	DESCRIPTION
X	DSI 9691-011	BRACKET KIT
1	D5078-1	BRACKET

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 14.03.24
CERT. NO.: SH12-54
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BRACKET INSTALLATION	NTS
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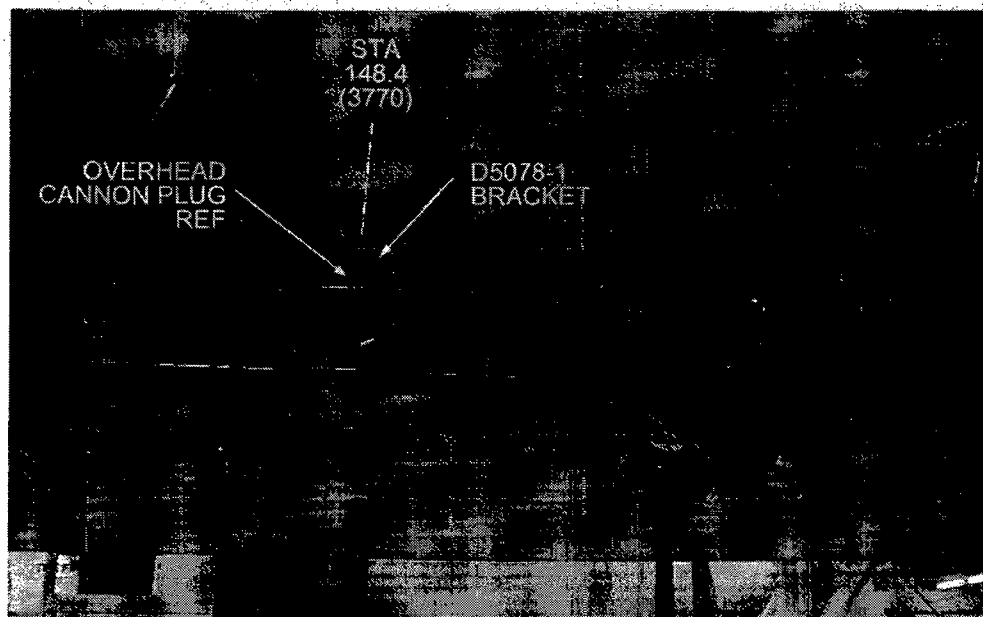


Figure 1. - LH Side Overhead Panel

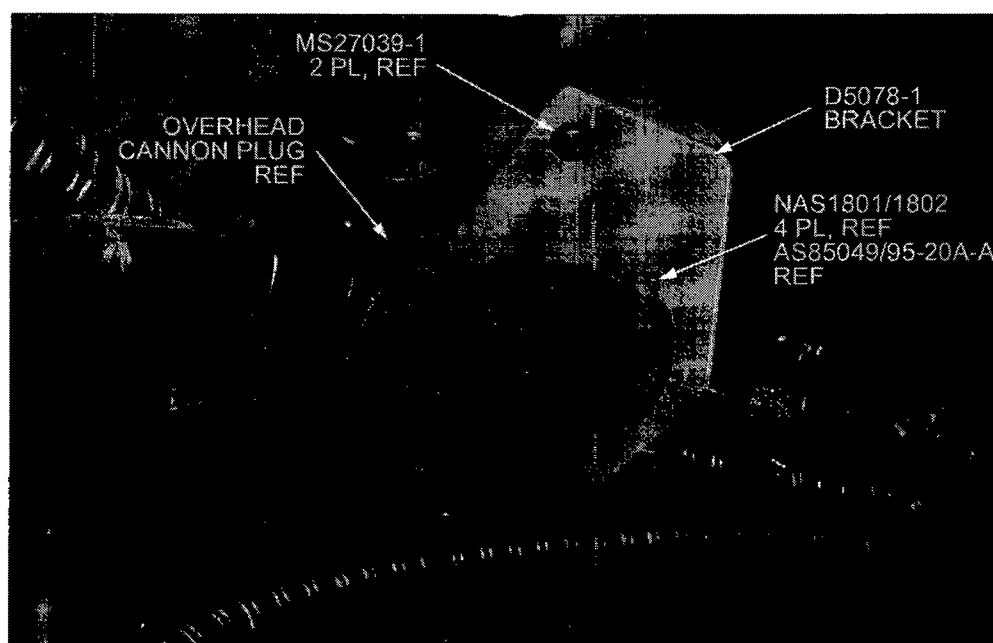


Figure 2. - D5078-1 Bracket Installation

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BRACKET INSTALLATION	NTS
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DART SERVICE INSTRUCTION

REFERENCE ONLY

TO AMEND IIN-D139-816 REV. D OR SUBSEQUENT
AND ICA-D139-816 REV. 3 OR SUBSEQUENT

REF. TCCA STC: SH12-54

REF. FAA STC: SR03251NY

REF. EASA STC: 10045158

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to install the D5078-1 Bracket to support the Overhead Connector for D139-811-011 Interior Ceiling Panel Kit.

2.0 PROCEDURE

This procedure is added after step 3.1.39 of IIN-D139-816 Rev. D.

- 2.1 Position the D5078-1 Bracket on the LH side of the cabin overhead by temporarily removing 2x MS27039-1 screws as shown in Figure 1. Transfer 2x $\varnothing 0.204$ " (#6 drill) holes from airframe to the D5078-1 Bracket. Deburr and touch-up holes with MIL-P-85582 or MIL-P-23377 primer.
- 2.2 Install D5078-1 Bracket using existing 2x MS27039-1 screws and washers as shown in Figure 1.
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- 2.4 Reconnect wire harness to overhead cannon plug as shown in Figure 2.

4.0 WEIGHT & BALANCE

This DSI has a negligible effect on Weight & Balance.

5.0 PARTS LIST

The D5078-1 bracket has been added to D139-816-011 Kits at CHG 005 and later. Customers who wish to obtain the D5078-1 Bracket for a kit that has already been installed can procure the DSI 9691-011 kit from Dart as outlined below.

QTY. -011	PART NUMBER	DESCRIPTION
X	DSI 9691-011	BRACKET KIT
1	D5078-1	BRACKET

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO #01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 14.03.24
CERT. NO.: SH12-54
ISSUE NO.: 1

A	NEW ISSUE	RF	14.03.24
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9691	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BRACKET INSTALLATION	NTS
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5.0 PARTS LIST

Qty -011	Part Number	Description
X	D139-816-011	INTERIOR CEILING PANEL KIT
1	D4634-041 /	FWD, CENTER CEILING PANEL ASSEMBLY
1	D4634-141	* FWD, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4634-043 /	MIDDLE, CENTER CEILING PANEL ASSEMBLY
1	D4634-143	* MIDDLE, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4634-045	AFT, CENTER CEILING PANEL ASSEMBLY
1	D4634-145	* AFT, CENTER CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-041	LH, FWD CEILING PANEL ASSEMBLY
1	D4635-141	* LH, FWD CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-042	RH, FWD CEILING PANEL ASSEMBLY
1	D4635-142	* RH, FWD CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-043	LH, AFT CEILING PANEL ASSEMBLY
1	D4635-143	* LH, AFT CEILING REPLACEMENT PANEL ASSEMBLY
1	D4635-044	RH, AFT CEILING PANEL ASSEMBLY
1	D4635-144	* RH, AFT CEILING REPLACEMENT PANEL ASSEMBLY
16	D4636-043	RECEPTACLE BRACKET ASSEMBLY
10	D4636-11	BRACKET
16	D4636-5	BRACKET
4	D4636-7	RETAINER PLATE
1	D4636-9	TEMPLATE
1	D4648-1	TEMPLATE /
6	D4653-041	VENT MANIFOLD ASSEMBLY
6	D4653-11	CLAMP
3	D4664-7	SPACER
2	D4712-043	BRACKET ASSEMBLY
2	D4716-1	DUCT HOSE
4	D4716-3	DUCT HOSE
6	D4716-5	DUCT HOSE
1	D4728-057	HARNESS ASSEMBLY
1	D4728-063	HARNESS ASSEMBLY
24	D4730-020-035	VELCRO STRIP
16	D5032-1	DOUBLER
16	D5032-3	DOUBLER
16	2351-20-21-C3C	DZUS SCREW
16	50-009-2	GROMMET
10	AN970-3	WASHER
24	BT1.5I-M	TIE WRAP
12	BT3LH-L	TIE WRAP
1	CB 200	3.5g ACRYLIC ADHESIVE
2	CS125-1032-8-AA-CR	STUD (or CS125-1032-8-AA-CRM)
35	MS21042L3	NUT
36	MS24694-S51	SCREW
21	MS27039-1-15	SCREW
5	NAS1149D0316J	WASHER (or AN960JD10L)
34	NAS1149D0332J	WASHER (or AN960JD10)
6	NAS1149D0663J	WASHER (or AN960JD616)

NOTES: (*) DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE
D4634-141/-143/-145 ARE REPLACEMENT PANELS
D4635-141/-142/-143/-144 ARE REPLACEMENT PANELS

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Revision: D
Date: 13.12.16

Work Order ID 149062

149062

Page

Tuesday, July 19, 2016 2:41:17 PM

Item ID: D139-816-011

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Lightweight Interior Ceiling Panels

Start Date: 7/7/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/19/2016 Req'd Qty: 1.00

1

Customer:

Reference:

DAS

Run Start *NR1*

Approvals: Process Plan: 21 Date: JUL 19 2016 Tooling: 9-89 Date: 9-89

Stop *NR2*

QC: 9-89 Date: 9-89 SPC (Y/N): 9-89 Date: 9-89

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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DSI9686	A
DSI9691	A
IIN-D139-816	D

AUG 03 2016

DAS
6
9-89

DAS
21 AUG 03 2016
9-89

100

Document Control
DOCUMENT CONTROL

0.00

100

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy blue file & type labels as per PPP D139-816-011 CHG005

CHG006

DAS
21
9-89

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

D139-816-011

INTERIOR CEILING PANEL

[illegible]